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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/721,478	11/25/2003	Gregory A. Graves	MPI454-US10	6017
7590	07/14/2005		EXAMINER	
Tyco Electronics Corporation Intellectual Property Law Dept. MS R20/2B 307 Constitution Drive Menlo Park, CA 94025-1164			EASTHOM, KARL D	
			ART UNIT	PAPER NUMBER
			2832	
DATE MAILED: 07/14/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/721,478	GRAVES ET AL.
	Examiner	Art Unit
	Karl D. Easthom	2832

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 02 July 2005.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-25 is/are pending in the application.
 - 4a) Of the above claim(s) 1-20 and 24 is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 21-23 and 25 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

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1. Applicant's election without traverse of Group I, species 2, upon which claims 21-23 and 25 read, in the reply filed on 7/7/5 is acknowledged.

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 23 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claim ends with the word "and" so that it is not clear what is remaining.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 21 and 25 are rejected under 35 U.S.C. 102(b) as being anticipated by Jensen et al. (4593181). Jensen discloses the claimed invention at Fig. 3 with laminate PTC element 12, transverse conductive element 28, and first laminar conductive member 15b. For claim 25, there is a plurality of transverse conductive members 28, col. 3, lines 45-55.

6. Claims 21 and 25 are rejected under 35 U.S.C. 102(b) as being anticipated by Jensen et al. (4801784). Jensen discloses the claimed invention at Fig. 13 with laminate PTC element 6, transverse conductive element 21, and first laminar conductive member 8. For claim 25, there is a plurality of transverse conductive members since two is a plurality.

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jensen et al. (4801784) in view of Ott (4959505). The claimed invention is disclosed essentially as noted above at Fig. 13 except the circuit board. Ott discloses a circuit board at col. 1, lines 5-50 in order to hold various components of a circuit, noting that a PTC thermistor component, like that of Jensen, is typically mounted to a circuit board, so that such a board would have been obvious where Jensen discloses that the device may be a sensor device for controlling circuits at col. 1, lines 35-42, and where the device is similar in structure to the Ott SMD device.

9. Claims 22 is rejected under 35 U.S.C. 102(b) as being anticipated by Jensen et al. (4593181) in view of Jensen et al. (4801784). The claimed invention is disclosed essentially at Fig. 3 of Jensen '181 except the resistivity. The first foil electrode is 15a and additional foil conductive member is 15b, and the second metal foil is on the other side of the gap 30, with polymer 12, and conductive member 28. Jensen '784 discloses the resistivity is at the top of cols. 12, lines 64 to col. 13 line 10, and notes that it is employed as a variable depending on the use, including voltage and wattage desired, so that such a resistivity would have been obvious depending on the desired wattage and voltage desired. Either Jensen device can function as a circuit protection device, or does so function, since the heater or sensor is self-regulating. Or, Jensen

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'784 discloses that the device may be a sensor device for controlling circuits at col. 1, lines 35-42, such as a fuse, or thermostat, so that such an application would have been obvious where the devices have the similar or the same PTC material and similar structure with foil electrodes for example.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl D. Easthom whose telephone number is (571) 272-1989. The examiner can normally be reached on M-Th, 5:30AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on (571) 272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Karl D Easthom
Primary Examiner
Art Unit 2832

KDE